

THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

Safety Regulations

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE DISTRICT SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE CONTENTS. ALL CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS. I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THIS OFFICE.

OWNER'S SIGNATURE DATE

CONTRACTOR'S SIGNATURE DATE

CONSTRUCTION NOTIFICATION

The Contractor/Owner is to notify the DISTRICT SOIL CONSERVATION DISTRICT at least 72 hours prior to construction to facilitate any scheduling, layout, or preliminary mobilization necessary to ensure proper construction inspection to enable appropriate certification of the project.

It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

GENERAL NOTES:

- PLEASE CONTACT THE DISTRICT SOIL CONSERVATION DISTRICT AT LEAST 3 DAYS PRIOR TO CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING @ PHONE #
- A CONSERVATION TECHNICIAN SHALL VERIFY CUT/GRADE STAKES AT THE CONTRACTORS REQUEST

CONSTRUCTION SEQUENCE:

CONTACT THE DISTRICT SOIL CONSERVATION DISTRICT AT 410-228-5640 EXT. 3 TO ARRANGE A PRE-CONSTRUCTION MEETING.

CONTACT MISS UTILITY AT 1-800-257-7777

INSTALL DEWATERING BASIN

INSTALL PUMP AROUND DEVICE

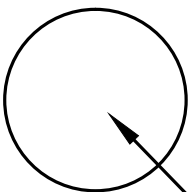
EXCAVATE AREA FOR PROPOSED CROSSING

INSTALL FILTER FABRIC, SLATS, AND ROCK

STABILIZE ALL DISTURBED AREAS PER VEGETATIVE STABILIZATION METHODS AND MATERIALS DETAIL ON PAGE \_\_\_\_

REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES

LANDOWNER/PROJECT  
578 - STREAM CROSSING  
(DISTRICT SOIL CONSERVATION DISTRICT)



SITE

VICINITY MAP  
N.T.S.



Know what's below.  
Call before you dig.

\*The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities"

AS-BUILT STATEMENT

THE CONSERVATION PRACTICE(S) MEETS OR EXCEEDS NRCS STANDARDS AND SPECIFICATIONS

INSPECTED BY SIGNATURE DATE

CONSTRUCTION APPROVAL SIGNATURE DATE

VERIFIED DISTRICT CONSERVATIONIST SIGNATURE DATE

MATERIALS LIST

SITE DATA:

LANDOWNER INFORMATION:

STREAM CLASSIFICATION:

CONTACT PERSON:

SITE DETAILS:

TOTAL DISTURBED ACRES = ±  
TOTAL DISTURBED SQFT = ±


CONSTRUCTION SUPERVISION BY NRCS/MDA/SCD PERSONNEL

LANDOWNER'S PERMISSION FOR MDE AND COE INSPECTION

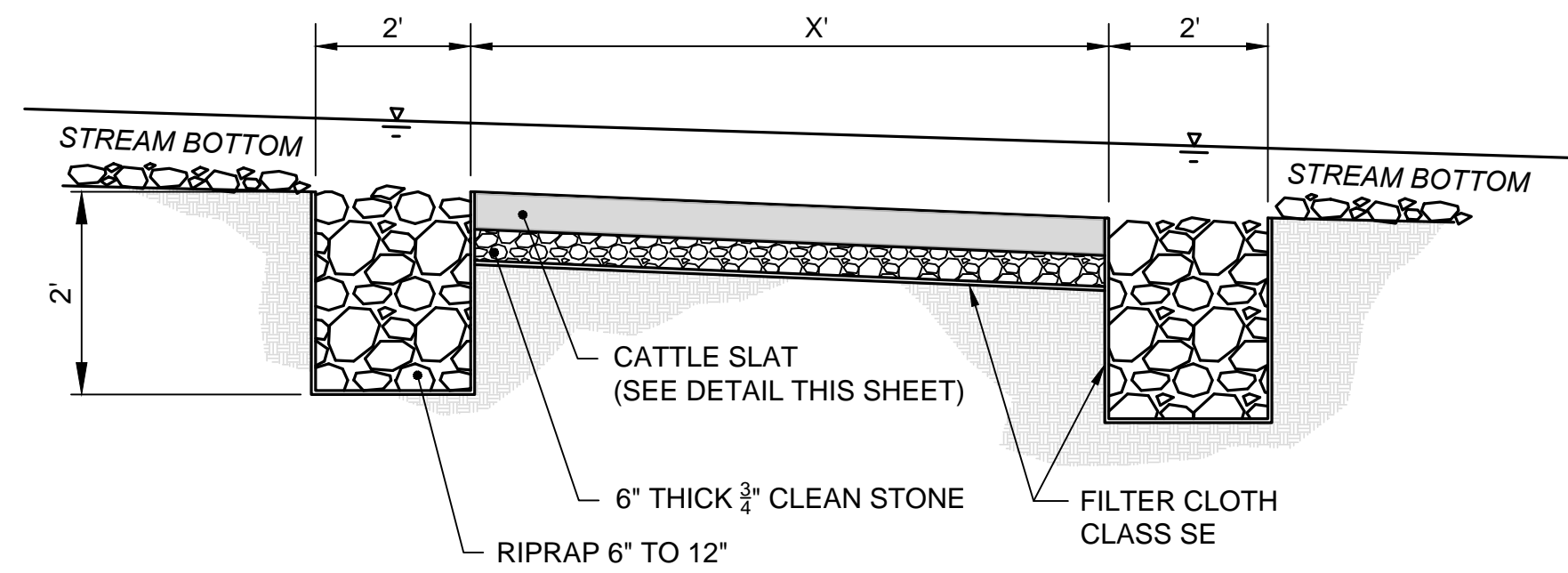
MM/YY	Designed	Drawn	Checked	Approved Title	Date	Job	Class
LANDOWNER 578 - STREAM CROSSING TRACT City, Maryland				Maryland Department of Agriculture DISTRICT Soil Conservation District			
United States Department of Agriculture USDA				Natural Resources Conservation Service			
REVISIONS		Approved					
Date	Description						
File No. *.DWG							
Sheet 1 of 5							

PLAN VIEW

PROFILES/CROSS SECTIONS

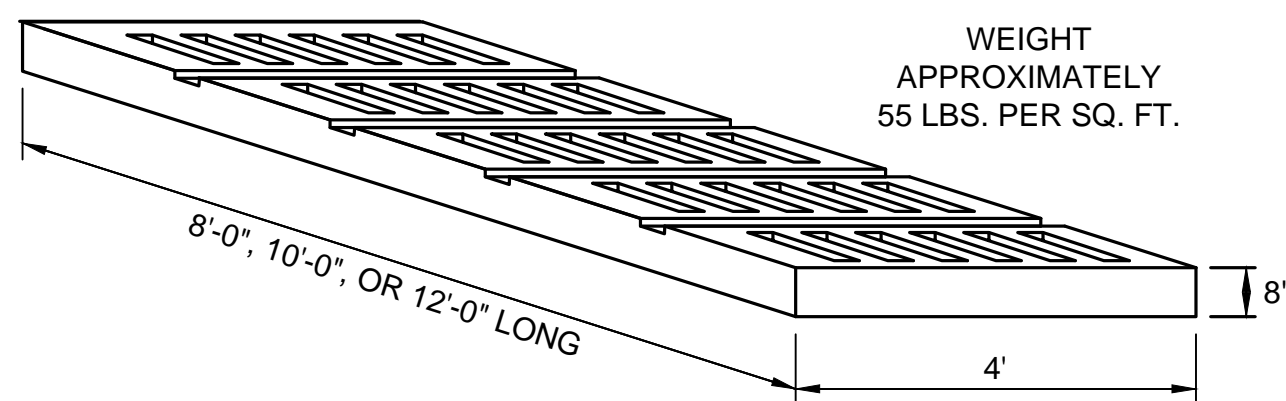
File No. *.DWG	REVISIONS			United States Department of Agriculture	LANDOWNER  578 – STREAM CROSSING TRACT City, Maryland	Designed  Drawn  Checked	MM/YY
	Date	Description	Approved				
Sheet 2 of 5				 Natural Resources Conservation Service	Maryland Department of Agriculture DISTRICT Soil Conservation District	Approved Title	Date
						Job	Class



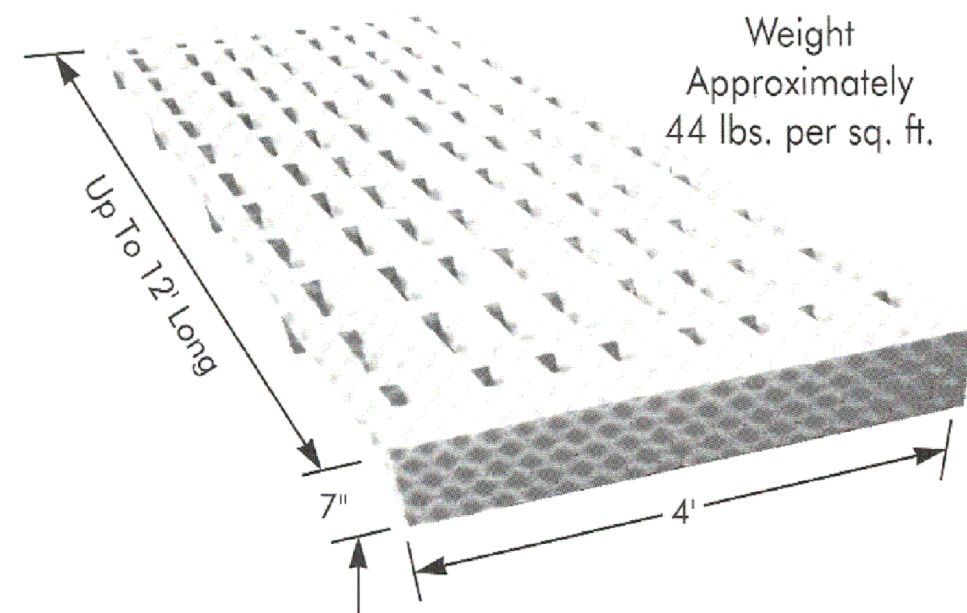


CROSS-SECTION AND RIPRAP CUT-OFF  
TRENCH  
NTS

8" THICK FOR  
HEAVIER EQUIPMENT LOAD  
LONG CORE CATTLE "WAFFLE SLAT"



CONCRETE SLAT DETAIL  
AS PER KEYSTONE CONCRETE PRODUCTS, INC.



CONCRETE SLAT DETAIL  
AS PER KEYSTONE CONCRETE, INC.

STATE HIGHWAY ADMINISTRATION GEOTEXTILE REQUIREMENTS						
Maryland Application Class	Type of Geotextile	Grab Strength Lb D 4532	Puncture Strength Lb D 4833	Permittivity Sec 1	Apparent Opening Size, Max Mm D 4751	Trapezoid Tear Strength Lb D4533
SD	NONWOVEN	160	55	0.50	0.43	55
TYPE I	WOVEN MONOFILAMENT	250	90	0.50	0.43	90
SD	NONWOVEN	160	55	0.20	0.25	55
TYPE I	WOVEN MONOFILAMENT	250	90	0.20	0.25	90
FE	NONWOVEN	200	80	0.70	0.43	80
TYPE I	WOVEN MONOFILAMENT	250	90	0.70	0.43	90
FE	NONWOVEN	200	80	0.20	0.25	80
TYPE I	WOVEN MONOFILAMENT	250	90	0.20	0.25	90
FC	NONWOVEN	200	80	0.10	0.22	80
TYPE III	WOVEN	250	90	0.10	0.22	90
SE	NONWOVEN	200	80	0.20	0.30	80
SE	WOVEN	250	90	0.20	0.30	90
ST	WOVEN	300*	110	0.05	0.10**	110
F	WOVEN	160	-	0.05	0.50	-
E	NONWOVEN	90	30	0.05	0.30	30

Note 1: All property values are based on minimum average roll values in the weakest principle direction, except for apparent opening size.  
Note 2: The uniaxial stability shall be 50 percent after 500 hours of exposure for all classes, except Class F, which shall be 70 percent (D 4355).  
\* Minimum 15 percent elongation.  
\*\* This is a minimum apparent opening size, not a maximum.

DETAIL B-4-6-C PERMANENT SOIL STABILIZATION MATTING CHANNEL APPLICATION

STANDARD SYMBOL  
PSSMC - \* lb/ft²  
(\* INCLUDE SHEAR STRESS)

CONSTRUCTION SPECIFICATIONS:

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
- KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-D PERMANENT SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL  
PSSMS - \* lb/ft²  
(\* INCLUDE SHEAR STRESS)

CONSTRUCTION SPECIFICATIONS:

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWN SLOPE. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
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- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

DETAIL F-4 FILTER BAG

STANDARD SYMBOL  
FB

CONSTRUCTION SPECIFICATIONS:

- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
- USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT²	ASTM D-4491
PERMITTIVITY (SEC⁻¹)	1.2 SEC⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

- REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

LANDOWNER  
TRACT

PRACTICE(S)

TOTAL AREA	AREA 1	AREA 2	AREA 3			
MATERIALS/RATE	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED
FERTILIZER 10-20-20						
500LBS/AC						
LIME - 2TONS/AC						
DOLOMITIC						
SEED MIXTURE (SEE BELOW)						
MULCH						
2 TONS/AC						

ENTER KINDS AND AMOUNT OF SEED BELOW

NOTE: INOCULATE ALL LEGUMES

AREA 1 NRCS SEED MIX #	AREA 2 NRCS SEED MIX #	AREA 3 NRCS SEED MIX #

SITE PREPARATION AND OTHER PERTINENT INFORMATION:

DISK ALL DISTURBED AREAS TO A DEPTH OF 4-6" CULTRIPACK AFTER SEEDING

SEEDING DATES  
SPRING:  
FALL:

PLAN APPROVED BY:

CHECKED FOR TECHNICAL COMPLIANCE BY:

TITLE

DATE

TITLE

DATE

USDA UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE MARYLAND

SEEDING

DRAWING NO. S-1.0

ISSUE DATE: 7/2014

DETAIL E-1 SILT FENCE

STANDARD SYMBOL  
SF

CONSTRUCTION SPECIFICATIONS:

- USE WOOD POSTS 1 1/2 x 1 1/2 x 1/2 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL  
SF

CONSTRUCTION SPECIFICATIONS:

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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT  
WATER MANAGEMENT ADMINISTRATION

MM/YY

Designed

Drawn

Checked

LANDOWNER

578 - STREAM CROSSING

TRACT

City, Maryland

Approved

Title

Date

Job

Class

United States Department of Agriculture

USDA

Natural Resources Conservation Service

REVISIONS

Description

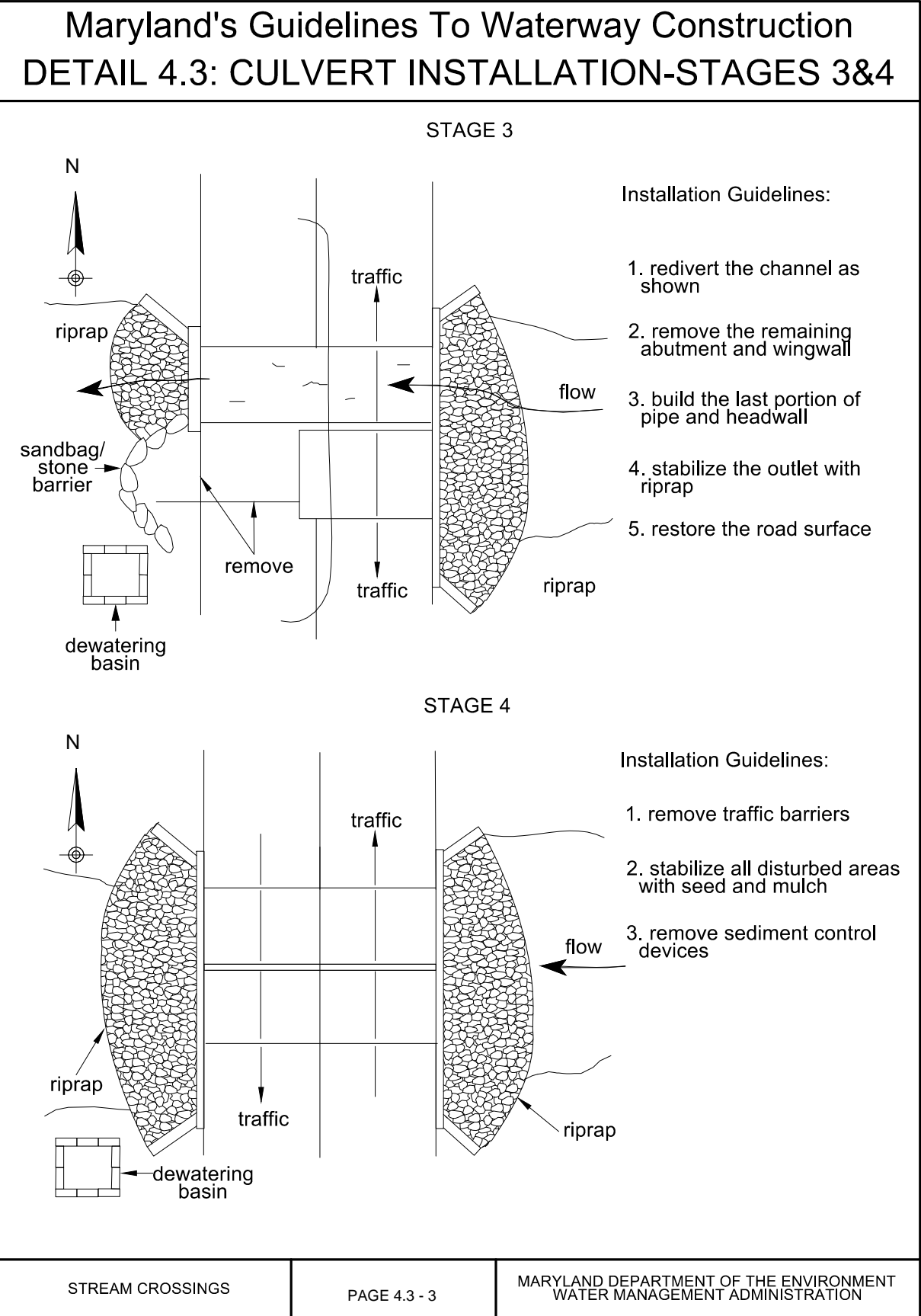
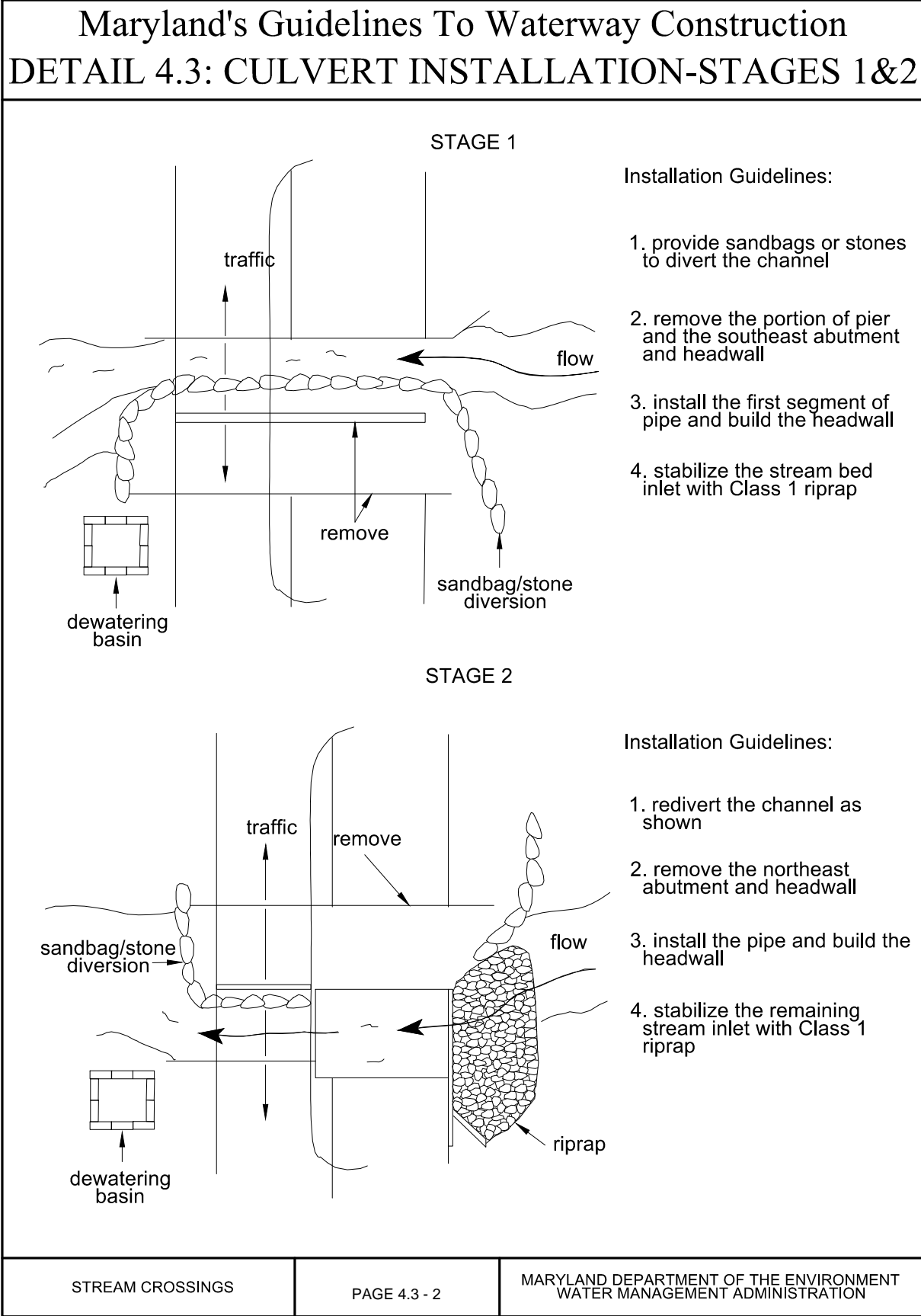
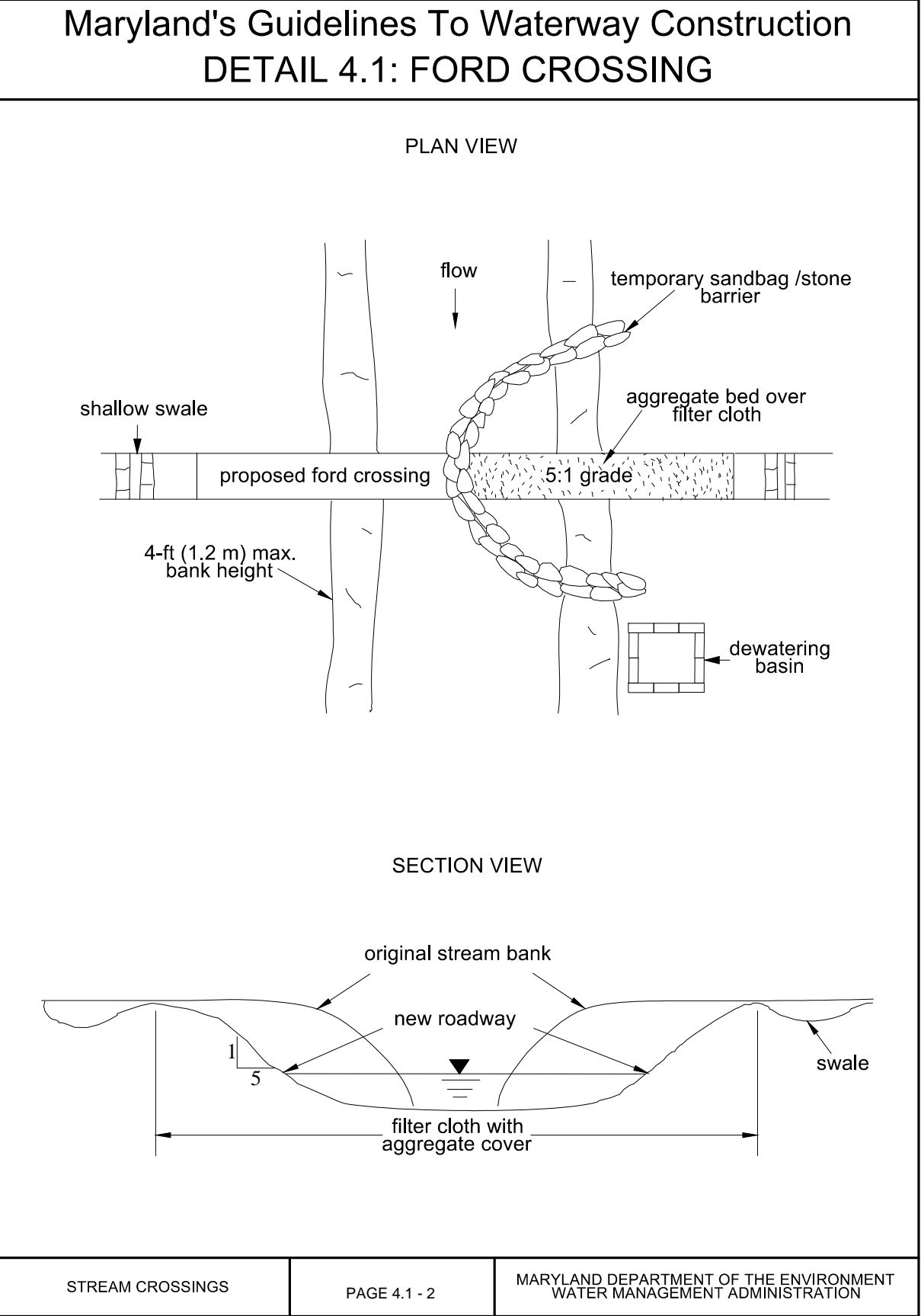
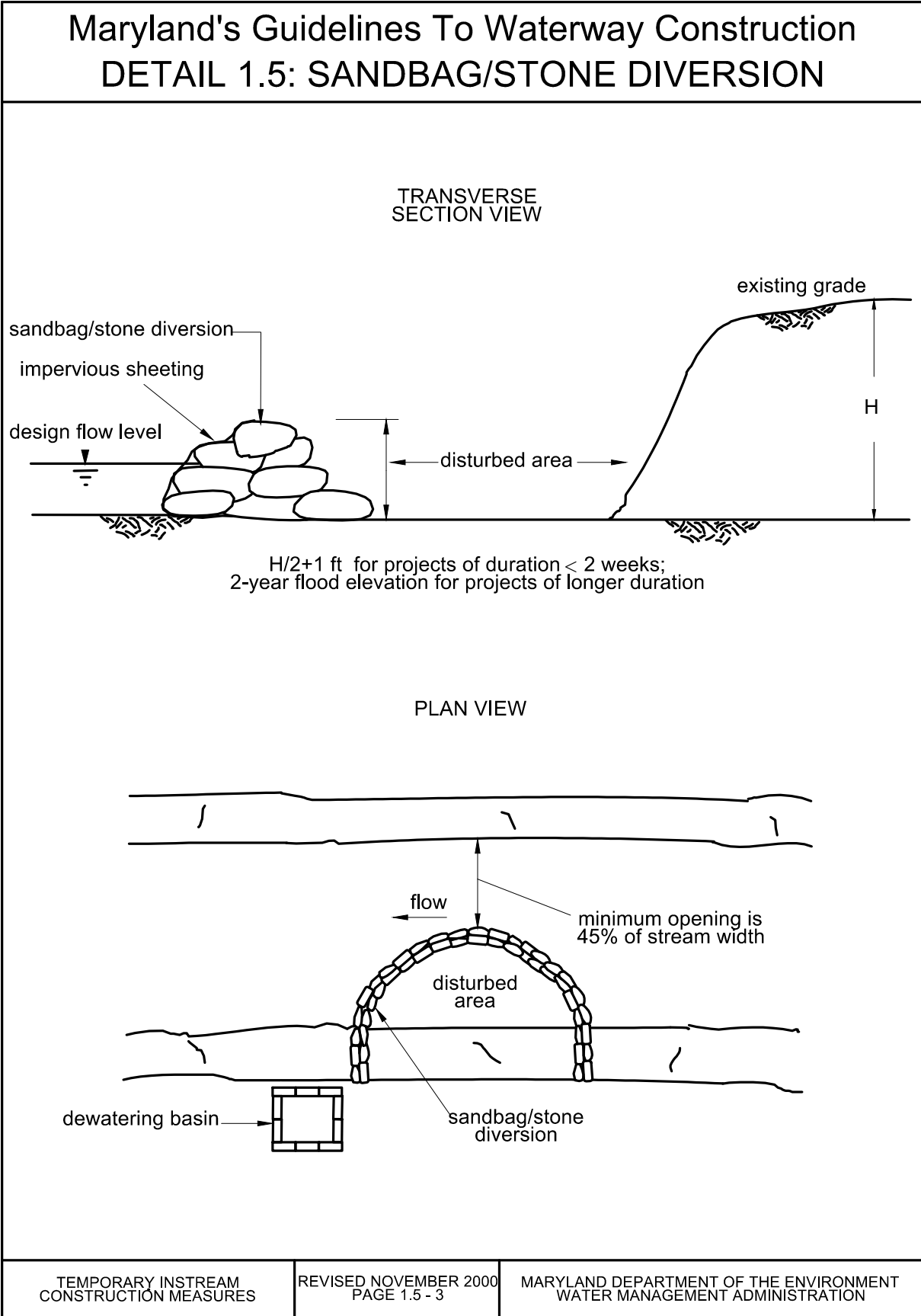
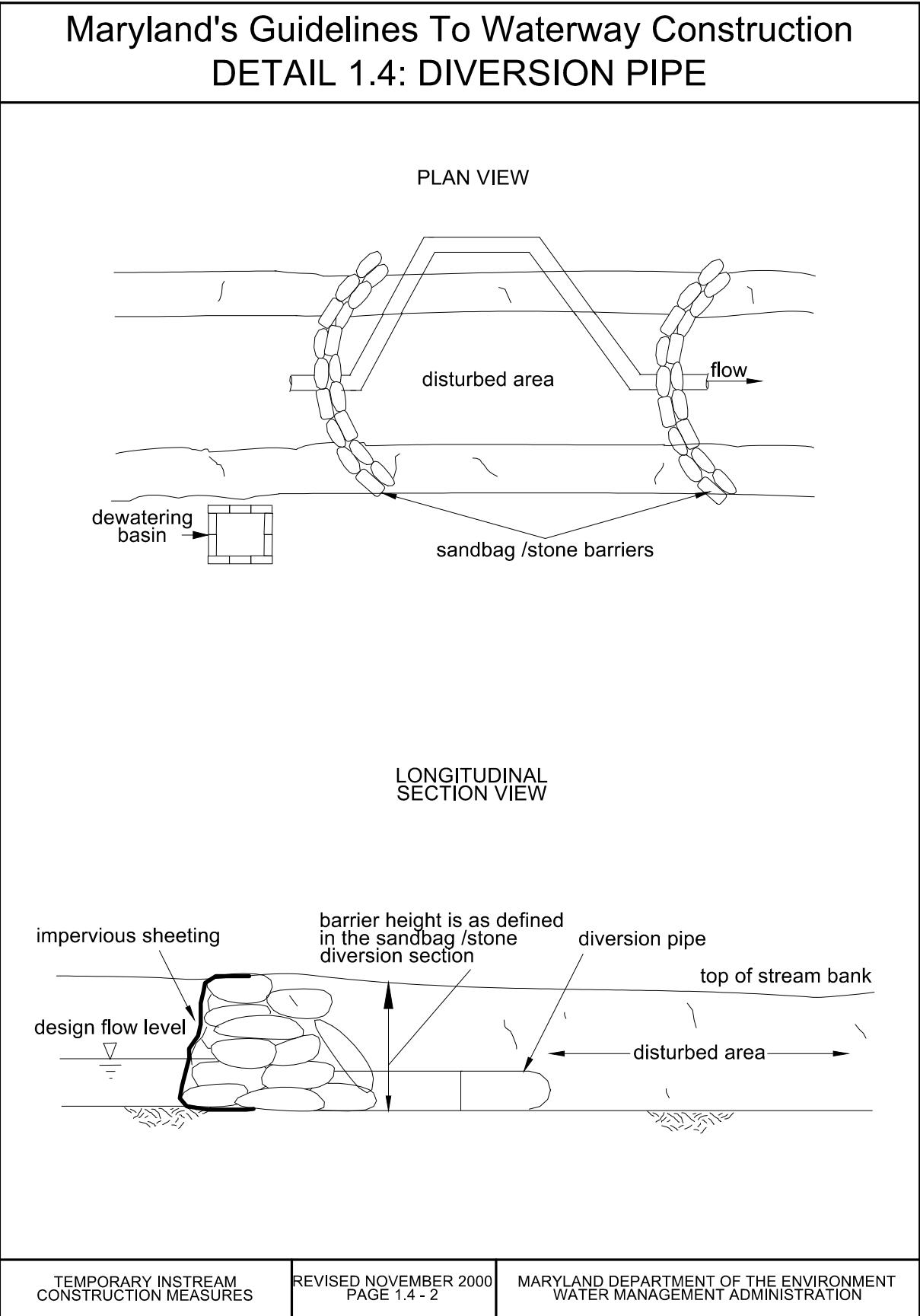
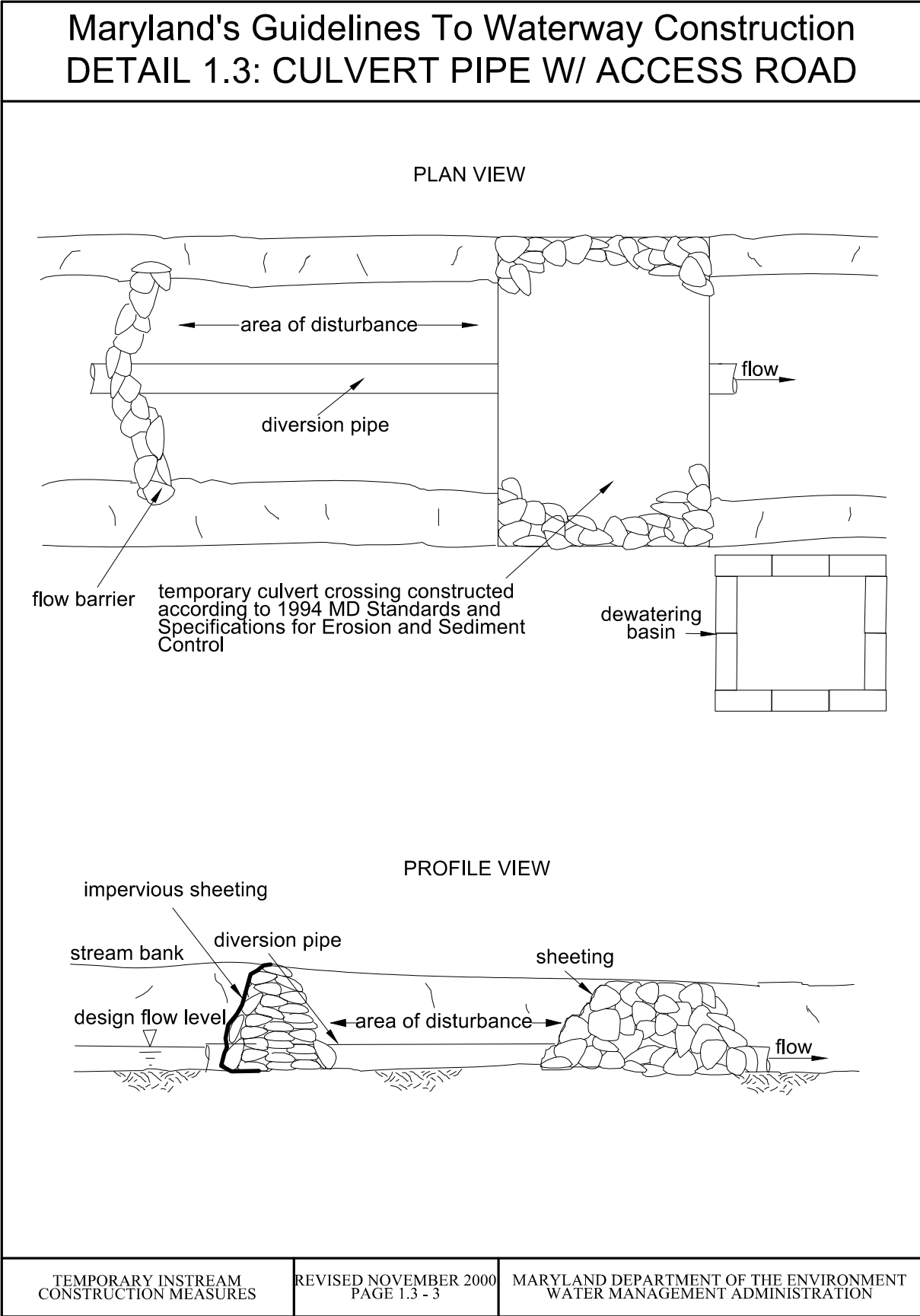
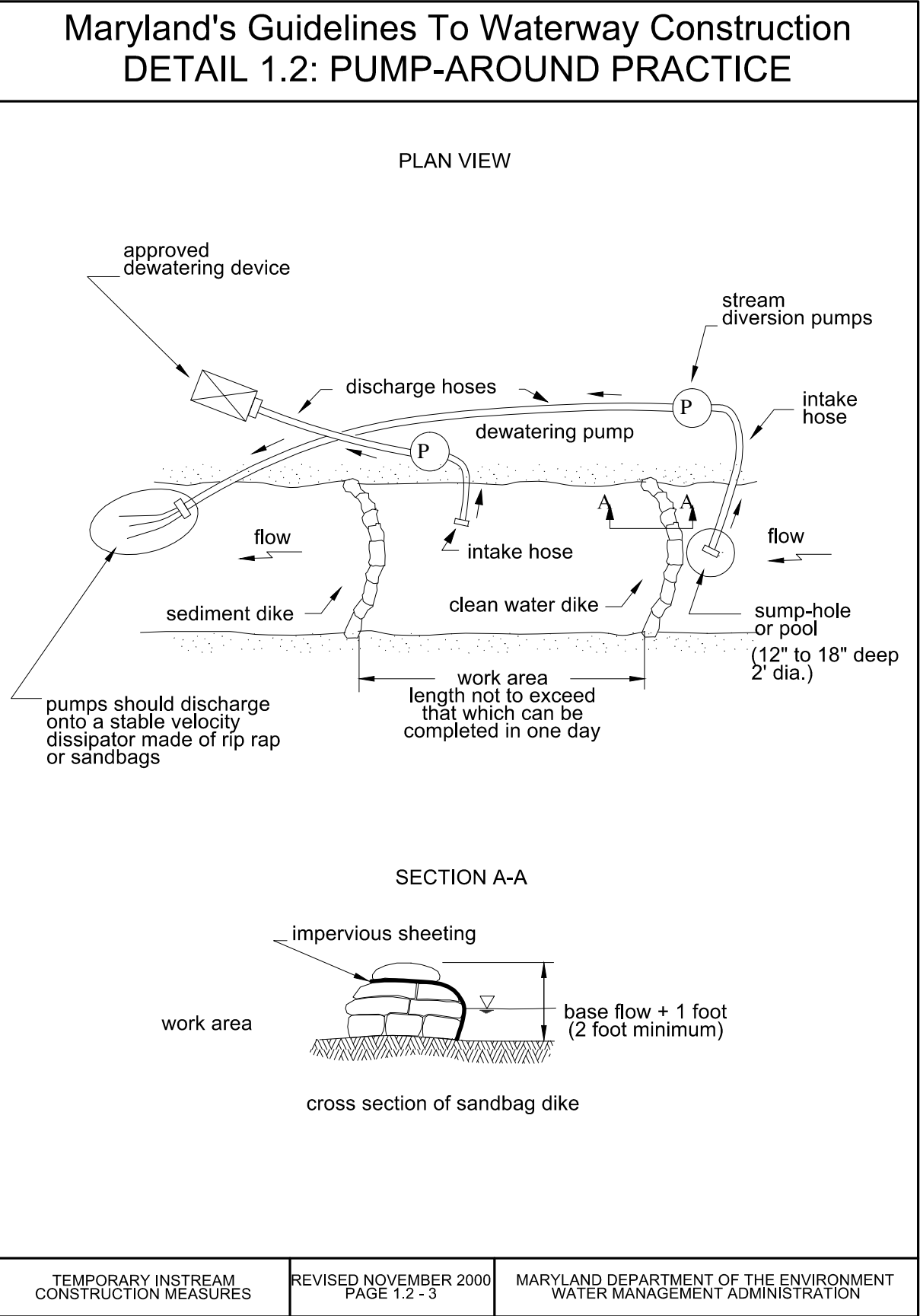
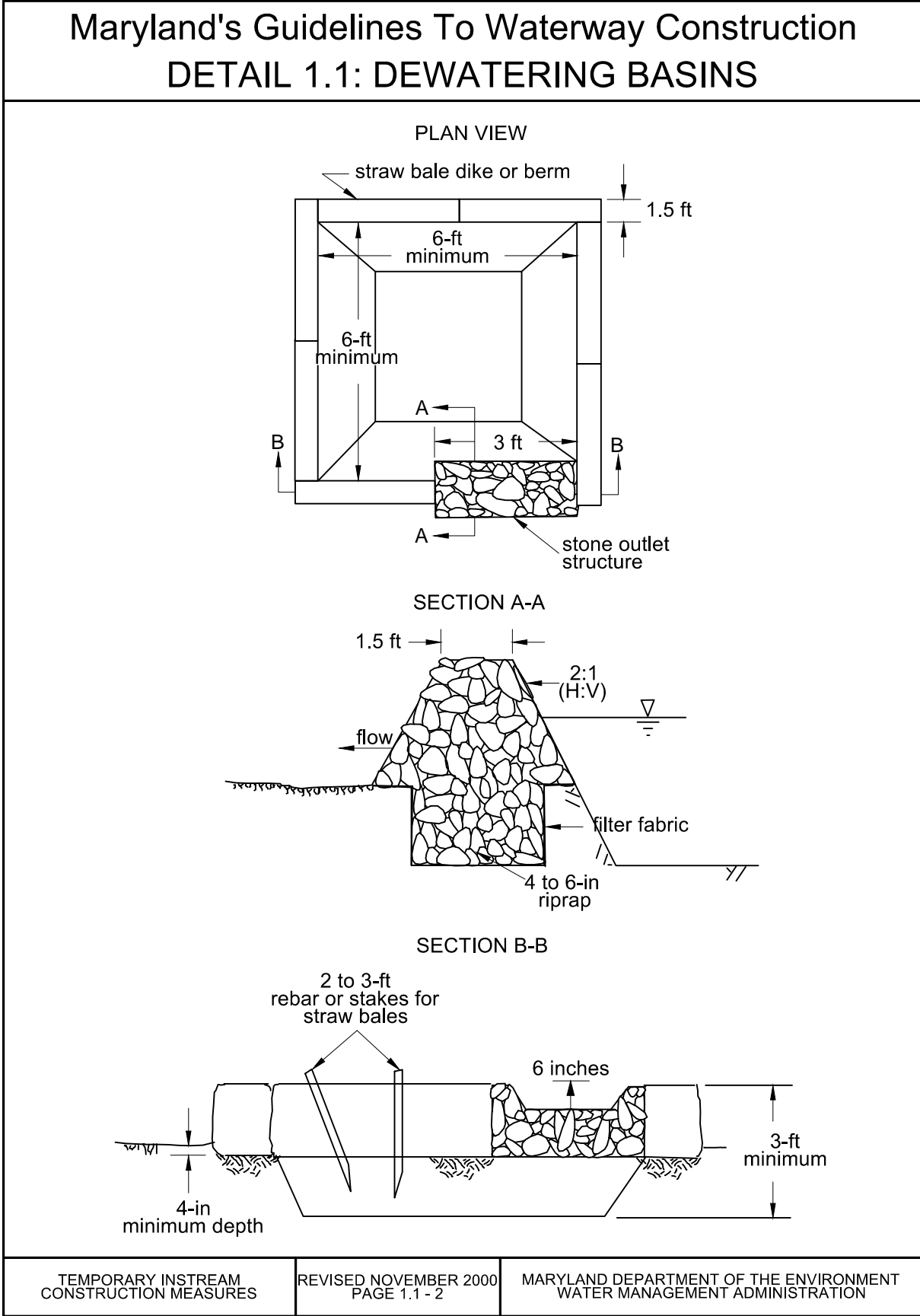
Approved

Date

File No.  
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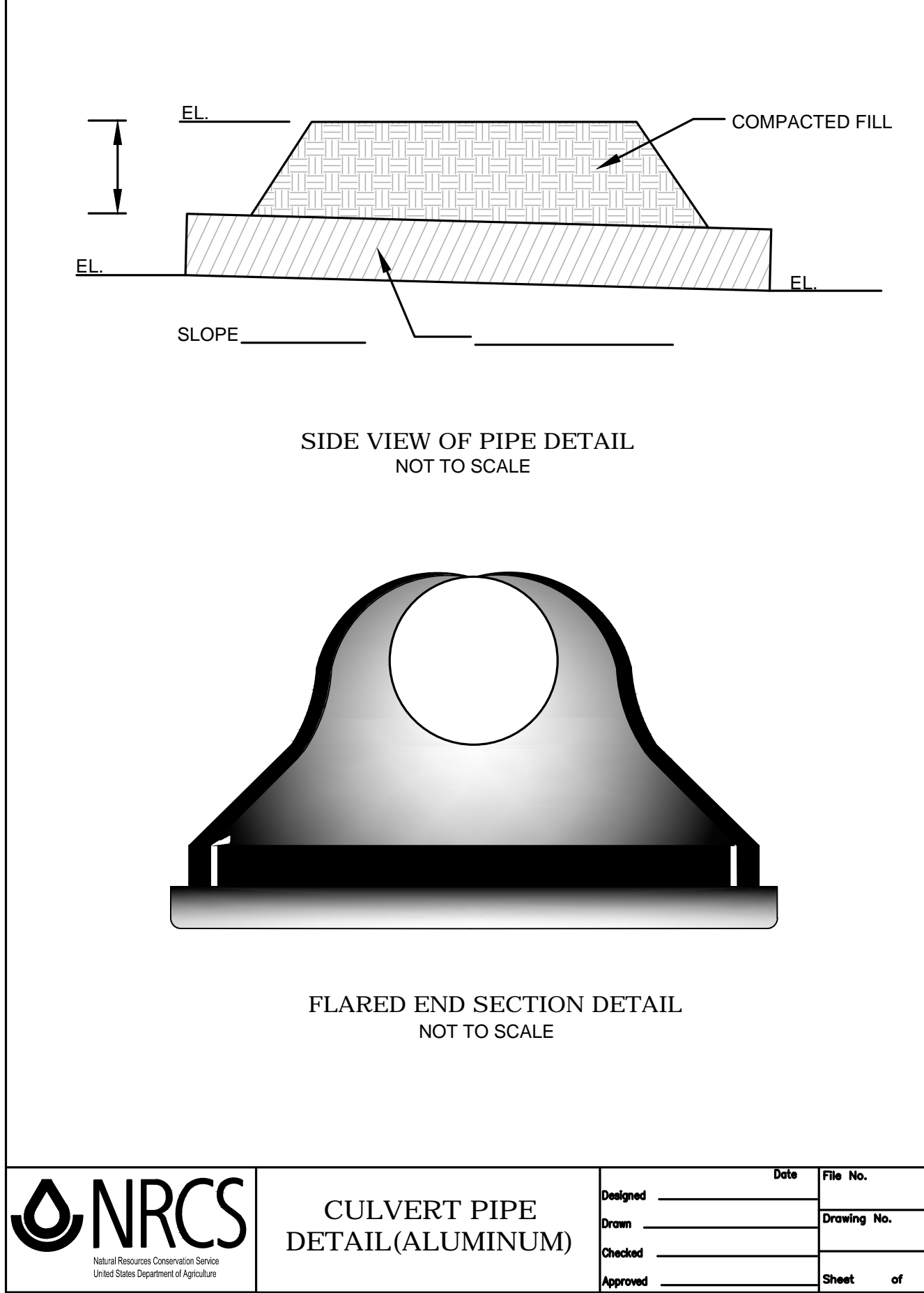
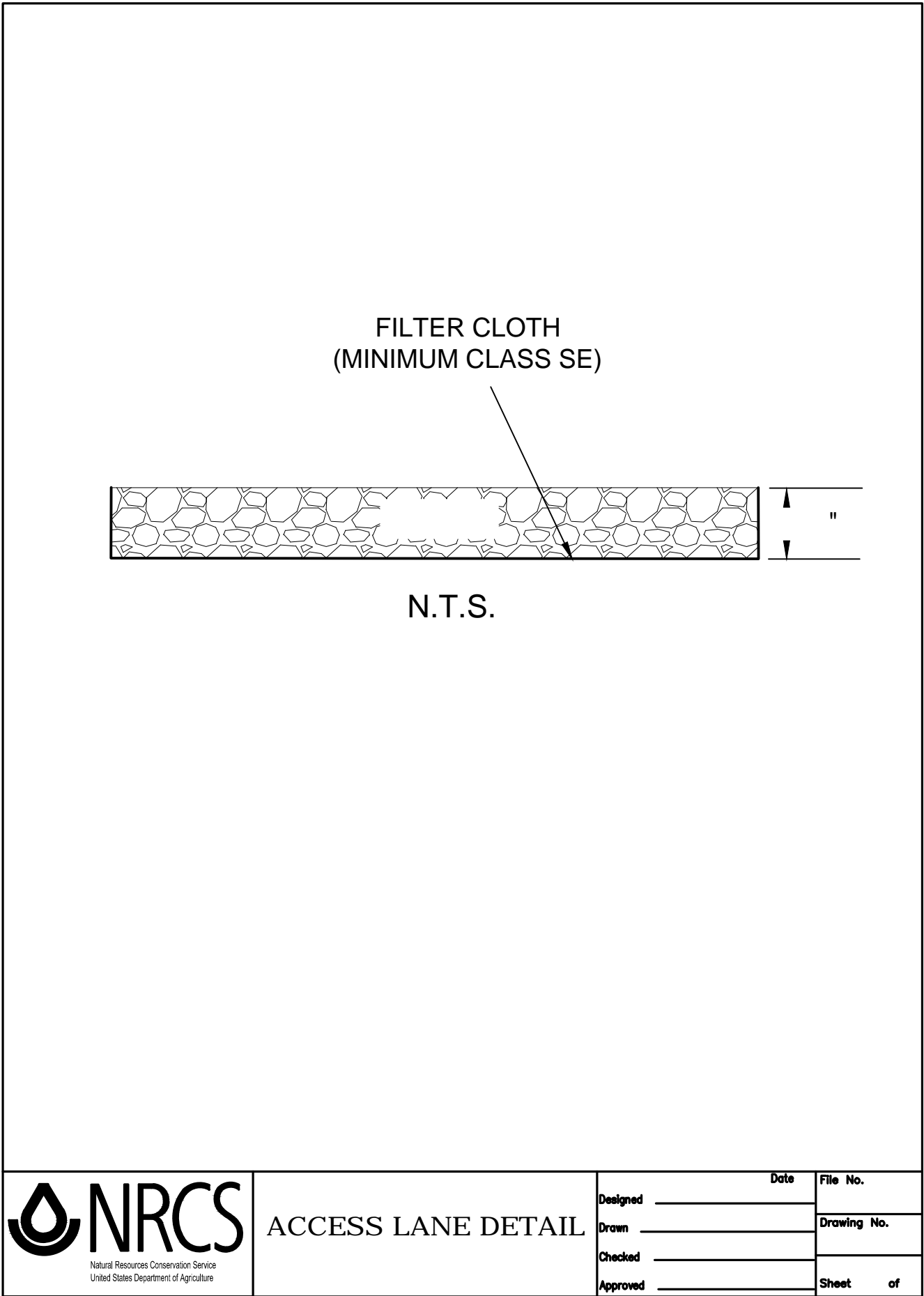
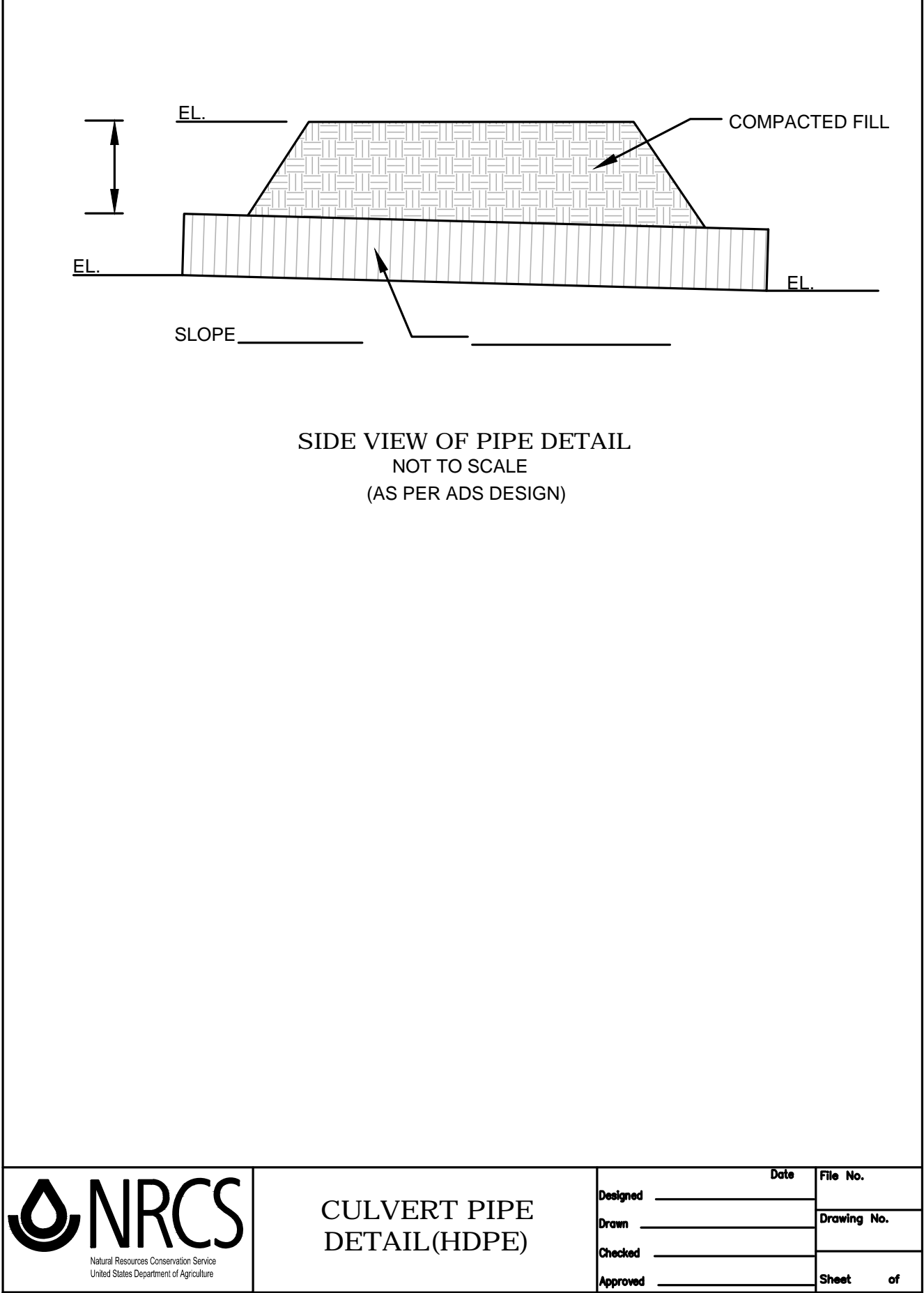
Sheet 3 of 5





EROSION & SEDIMENT CONTROLS

MM/YY	Designed	Drawn	Checked	Approved	Date	Class
LANDOWNER				City, Maryland		
578 - STREAM CROSSING				TRACT		
Maryland Department of Agriculture				DISTRICT Soil Conservation District		
United States Department of Agriculture				Natural Resources Conservation Service		
REVISIONS	Approved					
Date	Description					
File No. *.DWG						
Sheet 4 of 5						



OPERATION AND MAINTENANCE SCHEDULE  
FOR  
STREAM CROSSING

10 year maintenance life

1. Removal of any blockage of trash and debris that could affect flows through culverts or ford crossings.
  2. Inspect periodically to check for animal use and material durability. After a major storm, check for restrictions, trash, damage to fence, or erosion around crossing.
  3. Fence must be inspected and maintained in order to control livestock from stream.
  4. Repairs should be made as soon as possible. Repairs should be made to return the structure to the same condition as it was designed.
- If stream area is to be flash grazed the following operation and maintenance plan needs to be followed:
5. Area shall be grazed to maintain a grass height of 4-6 inches.
  6. At least one month prior to the first killing frost animals should be removed to maintain a grass height of 4-6 inches through out the winter. Stream area may be flash grazed at the beginning of the next growing season.

REVISIONS	Date	Description	Approved
File No. *.DWG			
Sheet 5 of 5			

United States Department of Agriculture 	LANDOWNER 578 – STREAM CROSSING TRACT City, Maryland	Designed _____	MM/YY
		Drawn _____	
		Checked _____	
Natural Resources Conservation Service	Maryland Department of Agriculture DISTRICT Soil Conservation District	Approved _____	Date _____
		Title _____	Job _____ Class _____